

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) An information processing apparatus, comprising:

an extractor configured to extract main information including copy control information, and to extract auxiliary information representing attributes of said main information, from input information;

a generator configured to generate copy permission information based on said extracted auxiliary information; and

a recorder configured to record the main information including the copy control information as a 188-byte transport stream packet, and to record the copy permission information generated by the generator in an extra 4-byte header adjacent to, but separate from, the 188-byte transport stream packet.

2. (Currently Amended) The information processing apparatus according to claim 1, wherein

said generator is further configured to generate ~~information on a flag indicating~~ validity of said copy permission information generated by the generator based upon whether said apparatus that recorded said main information recognized and processed said copy control information; and

the recorder is configured to record the flag indicating validity of the copy permission information in the extra 4-byte header.

3. (Previously Presented) The information processing apparatus according to claim 1 wherein:

said main information is a transport stream; and

said auxiliary information is information indicating a mode in which said main information is encoded.

4. (Previously Presented) The information processing apparatus according to claim 3, wherein said copy permission information is recorded by said recorder in an extra 4-byte header for each transport stream packet of said transport stream.

5. (Previously Presented) The information processing apparatus according to claim 1 wherein:

said input information is received through an IEEE1394 digital interface; and
said auxiliary information is an Encryption Mode Indicator (EMI).

6-7. (Cancelled)

8. (Currently Amended) An information processing method for outputting information, said method comprising:

extracting main information including copy control information and extracting auxiliary information representing attributes of said main information from input information;

generating copy permission information based on said extracted auxiliary information; and

recording the main information including the copy control information as a 188-byte transport stream packet, and recording the copy permission information generated in the generating step in an extra 4-byte header adjacent to, but separate from, the 188-byte transport stream packet.

9-14. (Cancelled)

15. (Previously Presented) The information processing apparatus of claim 1, further comprising:

a splitter configured to split the input information into a plurality of isochronous packets, each having an Encryption Mode Indicator (EMI) associated therewith; and

an analyzing circuit configured to select a strongest copy restriction mode from among the EMIs associated with the plurality of isochronous packets at a value representative of the input information.

16. (Previously Presented) The information processing apparatus of claim 15, wherein the generator is configured to generate a Copy Permission Indicator (CPI) corresponding to the EMI having the strongest copy restriction mode.

17. (Currently Amended) The information processing method according to claim 8 further comprising: ~~the step of~~

generating ~~information on a flag indicating~~ validity of said copy permission information based upon whether said apparatus that recorded said main information recognized and processed said first copy control information; and
recording the flag in the extra 4-byte header.

18. (Previously Presented) The information processing method according to claim 8 wherein:

said main information is a transport stream; and

said auxiliary information is information indicating a mode in which said main information is encoded.

19. (Previously Presented) The information processing method according to claim 8, wherein said copy permission information is recorded in an extra 4-byte header for each transport stream packet of said transport stream.

20. (Previously Presented) The information processing method according to claim 8 wherein:

said input information is received through an IEEE1394 digital interface; and
said auxiliary information is an Encryption Mode Indicator (EMI).

21. (Previously Presented) The information processing method of claim 8, further comprising the steps of:

splitting the input information into a plurality of isochronous packets, each having an Encryption Mode Indicator (EMI) associated therewith; and

selecting a strongest copy restriction mode from among the EMIs associated with the plurality of isochronous packets at a value representative of the input information.

22. (Previously Presented) The information processing method of claim 21, wherein the generating step comprises generating a Copy Permission Indicator (CPI) corresponding to the EMI having the strongest copy restriction mode.

23-28. (Cancelled)

29. (Previously Presented) An information processing apparatus, comprising:

- an extractor configured to extract main information including copy control information and to extract auxiliary information representing attributes of said main information from input information;
- an analyzing circuit configured to analyze said copy control information;
- an encoder configured to convert said copy control information into new copy control information when it is determined that said copy control information is valid;
- a generator configured to generate copy permission information based on said extracted auxiliary information; and
- a recorder configured to record the main information and said new copy control information as a 188-byte transport stream packet, and to record the copy permission information generated by the generator in an extra 4-byte header adjacent to, but separate from, the 188-byte transport stream packet.

30. (Previously Presented) The information processing apparatus according to claim 29, wherein said generator is further configured to generate said new copy control information when it is determined that said copy control information is invalid.

31. (Currently Amended) The information processing apparatus according to claim 30, wherein ~~it is determined~~ the generator is configured to generate a flag indicating whether said copy control information is valid based upon whether an apparatus that recorded said main information recognized and processed said first copy control information; and the recorder is configured to record the flag in the extra 4-byte header.

32. (Previously Presented) The information processing apparatus according to claim 29 wherein:

said main information is a transport stream; and

said auxiliary information is information indicating a mode in which said main information is encoded.

33. (Previously Presented) The information processing apparatus according to claim 32, wherein said copy permission information is recorded by said recorder in an extra 4-byte header for each transport packet of said transport stream.

34. (Previously Presented) The information processing apparatus according to claim 29 wherein:

said input information is received through an IEEE1394 digital interface; and

said auxiliary information is an Encryption Mode Indicator (EMI).

35. (Previously Presented) An information processing method for outputting information, said method comprising:

extracting main information including copy control information and extracting auxiliary information representing attributes of said main information from input information;

analyzing said copy control information;

converting said copy control information into new copy control information when it is determined that said copy control information is valid;

generating copy permission information based on said extracted auxiliary information; and

recording the main information and said new copy control information as a 188-byte transport stream packet, and recording the copy permission information generated in the generating step in an extra 4-byte header adjacent to, but separate from, the 188-byte transport stream packet.

36. (Previously Presented) The information processing method of claim 35, further comprising:

splitting the input information into a plurality of isochronous packets, each having an Encryption Mode Indicator (EMI) associated therewith; and

selecting a strongest copy restriction mode from among the EMIs associated with the plurality of isochronous packets at a value representative of the input information.

37. (Previously Presented) The information processing method of claim 36, wherein the generating step comprises generating a Copy Permission Indicator (CPI) corresponding to the EMI having the strongest copy restriction mode.

38. (Currently Amended) The information processing method according to claim 36, further comprising:

generating ~~information on~~ a flag indicating validity of said copy permission information based upon whether an apparatus that recorded said main information recognized and processed said first copy control information; and

recording the flag in the extra 4-byte header.

39. (Previously Presented) The information processing method according to claim 36, wherein:

said main information is a transport stream; and
said auxiliary information is information indicating a mode in which said main information is encoded.

40. (Previously Presented) The information processing method according to claim 36, wherein said copy permission information is recorded in an extra 4-byte header for each transport stream packet of said transport stream.

41. (Previously Presented) The information processing method according to claim 36, wherein:

said input information is received through an IEEE1394 digital interface; and
said auxiliary information is an Encryption Mode Indicator (EMI).

42. (Previously Presented) The information processing method of claim 36, further comprising the steps of:

splitting the input information into a plurality of isochronous packets, each having an Encryption Mode Indicator (EMI) associated therewith; and

selecting a strongest copy restriction mode from among the EMIs associated with the plurality of isochronous packets at a value representative of the input information.

43. (Previously Presented) The information processing method of claim 42, wherein the generating step comprises generating a Copy Permission Indicator (CPI) corresponding to the EMI having the strongest copy restriction mode.

44-49. (Cancelled)

50. (Currently Amended) An information processing apparatus, comprising:

an extractor configured to extract main information including copy control information and to extract auxiliary information representing attributes of said main information from input information;

a first generator configured to generate copy permission information and a second generator configured to generate copy control information based on said extracted auxiliary information; and

a recorder configured to record the main information and said copy control information as a 188-byte transport stream packet, and to record the copy permission information generated by the first generator in an extra 4-byte header adjacent to, but separate from, ~~the 188~~ the 188-byte transport stream packet.

51. (Previously Presented) The information processing apparatus according to claim 50, wherein said second generator is further configured to generate said copy control information when it is determined that said copy control information is invalid.

52. (Currently Amended) The information processing apparatus according to claim 51, wherein ~~it is determined~~ the generator is configured to generate a flag indicating whether said copy control information is valid based upon whether an apparatus that recorded said main information recognized and processed said first copy control information; and

the recorder is configured to record the flag in the extra 4-byte header.

53. (Previously Presented) The information processing apparatus according to claim 50, wherein:

said main information is a transport stream; and
said auxiliary information is information indicating a mode in which said main information is encoded.

54. (Previously Presented) The information processing apparatus according to claim 53, wherein said copy permission information and said copy control information are recorded by said recorder in an extra 4-byte header for each transport stream packet of said transport stream.

55. (Previously Presented) The information processing apparatus according to claim 50, wherein:

said input information is received through an IEEE1394 digital interface; and said auxiliary information is an Encryption Mode Indicator (EMI).

56. (Previously Presented): An information processing method for outputting information, said method comprising :

extracting main information including copy control information and extracting auxiliary information representing attributes of said main information from input information;

generating copy permission information and copy control information based on said extracted auxiliary information; and

recording the main information and said copy control information as a 188-byte transport stream packet, and recording the copy permission information generated in the generating step in an extra 4-byte header adjacent to, but separate from, the 188-byte transport stream packet.

57. (Previously Presented) The information processing method of claim 56, further comprising the steps of:

splitting the input information into a plurality of isochronous packets, each having an Encryption Mode Indicator (EMI) associated therewith; and

selecting a strongest copy restriction mode from among the EMIs associated with the plurality of isochronous packets at a value representative of the input information.

58. (Previously Presented) The information processing apparatus of claim 56, wherein the generating step comprises generating a Copy Permission Indicator (CPI) corresponding to the EMI having the strongest copy restriction mode.

59. (Currently Amended) The information processing method according to claim 56, further comprising ~~the step of generating information on a flag indicating~~ validity of said copy permission information based upon whether an apparatus that recorded said main information recognized and processed said first copy control information; and recording the flag in the extra 4-byte header.

60. (Previously Presented) The information processing method according to claim 56, wherein:

said main information is a transport stream; and

said auxiliary information is information indicating a mode in which said main information is encoded.

61. (Previously Presented) The information processing method according to claim 56, wherein said copy permission information and said copy control information is recorded in an extra 4-byte header for each transport stream packet of said transport stream.

62. (Previously Presented) The information processing method according to claim 56, wherein:

said input information is received through an IEEE1394 digital interface; and

said auxiliary information is an Encryption Mode Indicator (EMI).

63. (Previously Presented) The information processing method of claim 56, further comprising the steps of:

splitting the input information into a plurality of isochronous packets, each having an Encryption Mode Indicator (EMI) associated therewith; and

selecting a strongest copy restriction mode from among the EMIs associated with the plurality of isochronous packets at a value representative of the input information.

64. (Previously Presented) The information processing method of claim 63, wherein the generating step comprises generating a Copy Permission Indicator (CPI) and copy control information corresponding to the EMI having the strongest copy restriction mode.